

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18476 - L2 Version 1
Chandra X-Ray Center

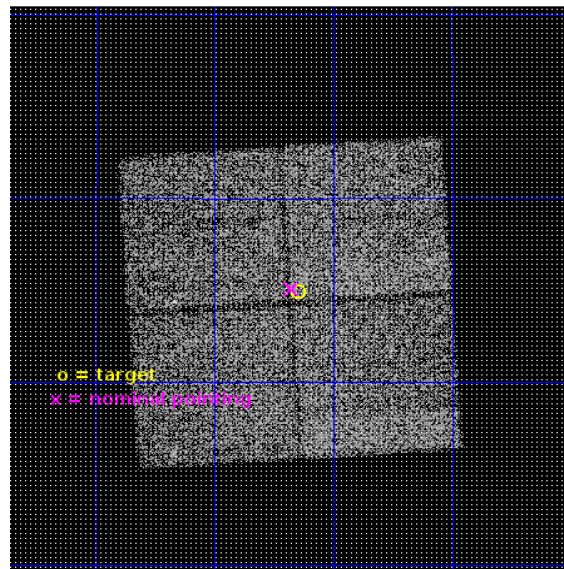
L2 Processing Date : Oct 31 2016

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1 Front

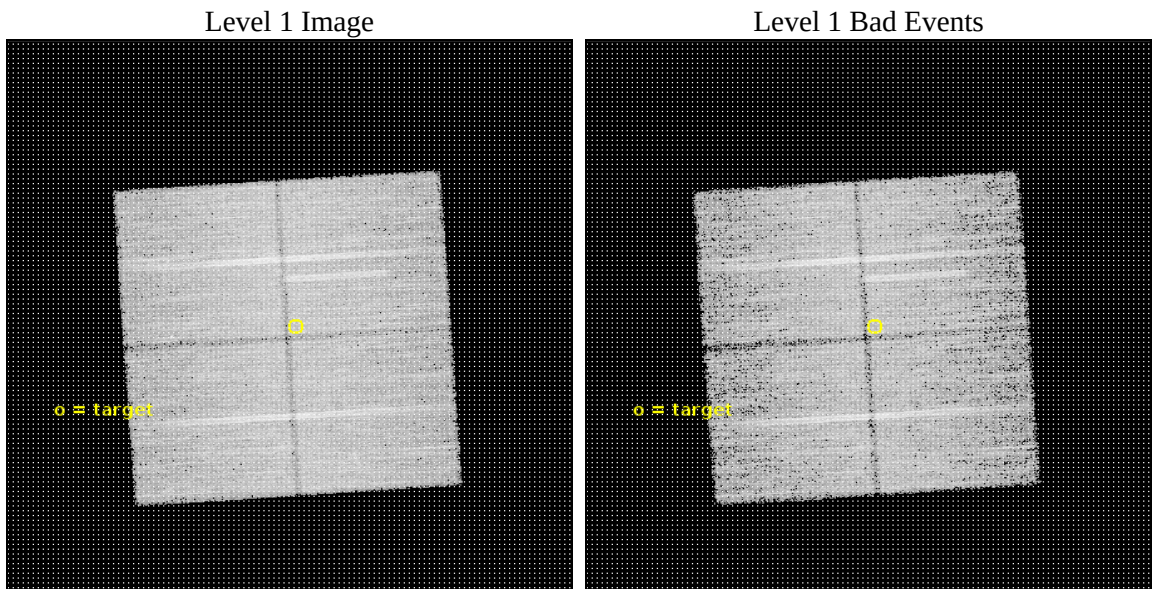
seq_num	901209	Sequence number
obs_id	18476	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.16117	Observer's specified target RA [deg]
dec_targ	33.915778	Observer's specified target Dec [deg]
ra_nom	218.16913771509	Nominal RA [deg]
dec_nom	33.918018687328	Nominal Dec [deg]
roll_nom	356.20424362855	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24149.000185847	Sum of GTIs [s]
livetime	23833.475720184	Livetime [s]
ontime0	24149.000185847	Sum of GTIs [s]
ontime1	24145.85919559	Sum of GTIs [s]
ontime2	24149.000185847	Sum of GTIs [s]
ontime3	24149.000185847	Sum of GTIs [s]
l2events	60480	Number of level 2 events



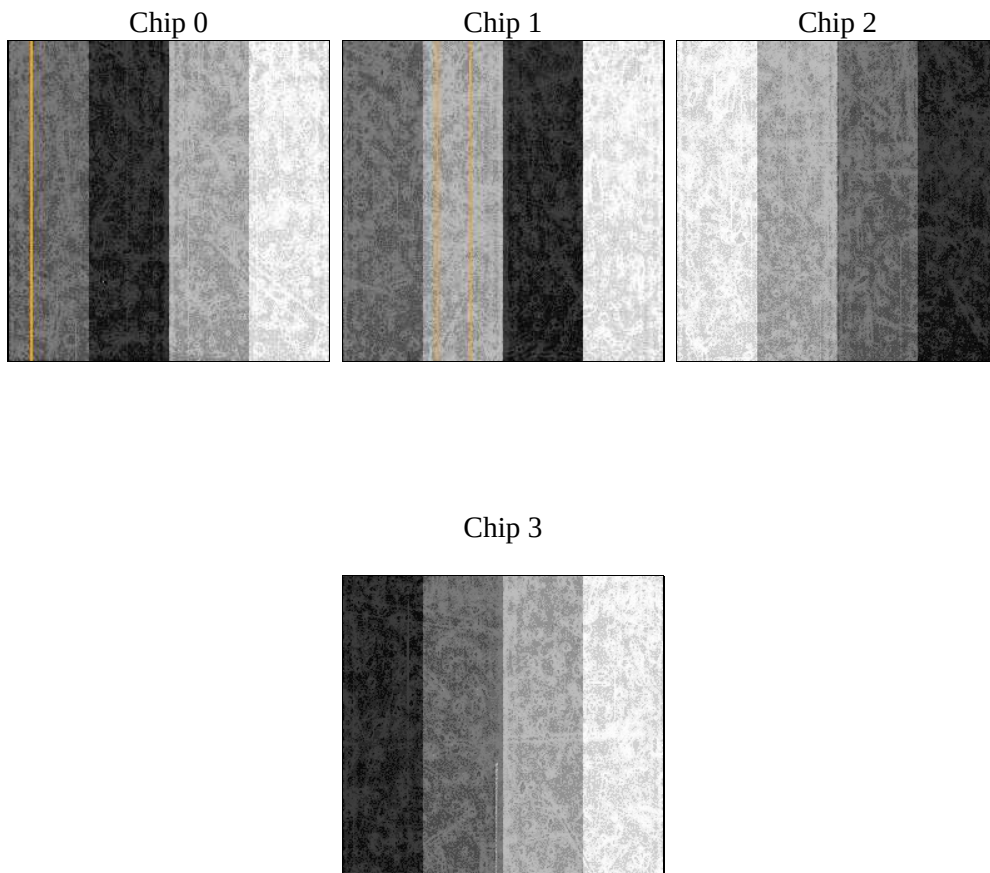
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24064.472000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	24149.000185847	Sum of GTIs [s]
caldbver	4.7.2	 	ontime0	24149.000185847	Sum of GTIs [s]
date	2016-10-31T11:49:07	Date and time of file creation	ontime1	24145.85919559	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24149.000185847	Sum of GTIs [s]
			ontime3	24149.000185847	Sum of GTIs [s]
			l1events	607083	Number of level 1 events

2.1.4 Events

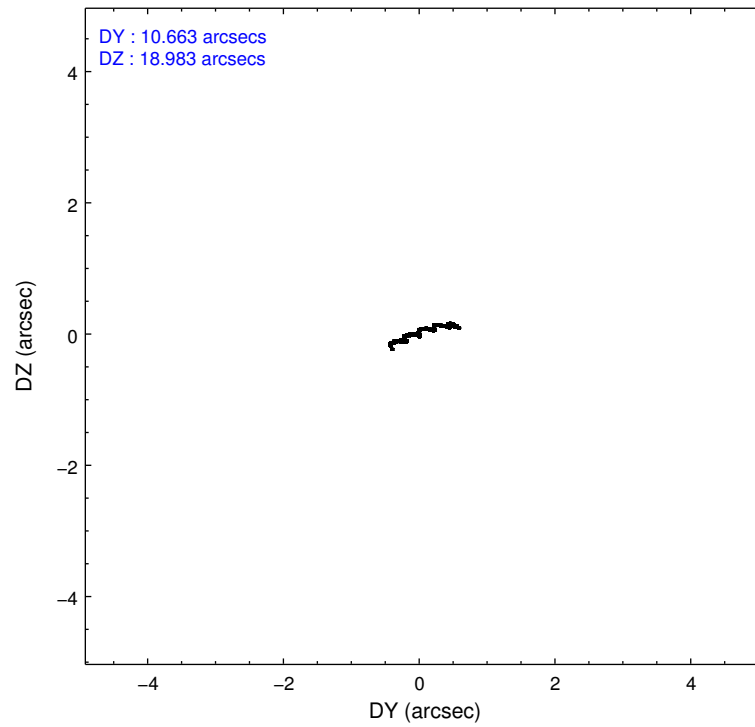
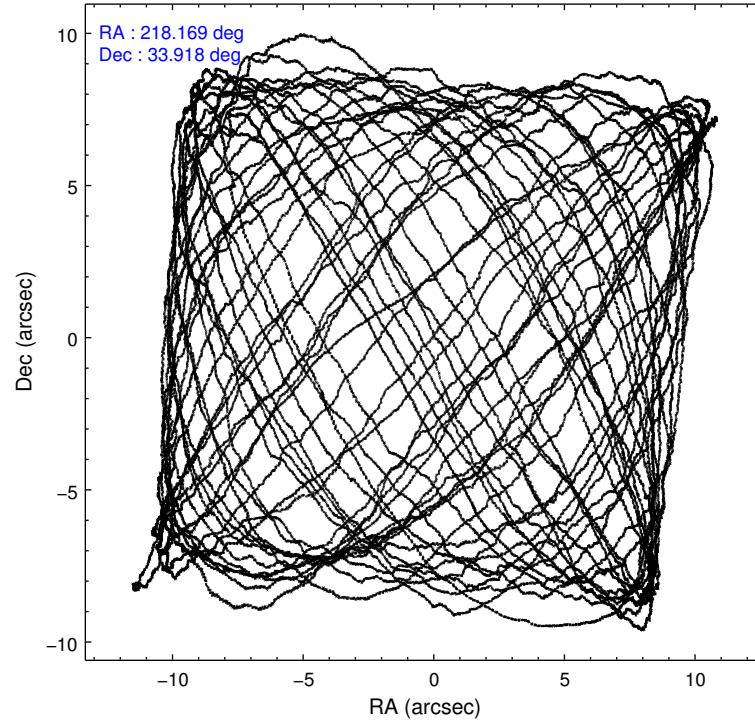
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	145019	146429	156969	158666
rejected events	126940	126813	139569	140875
rejected %	87%	86%	88%	88%

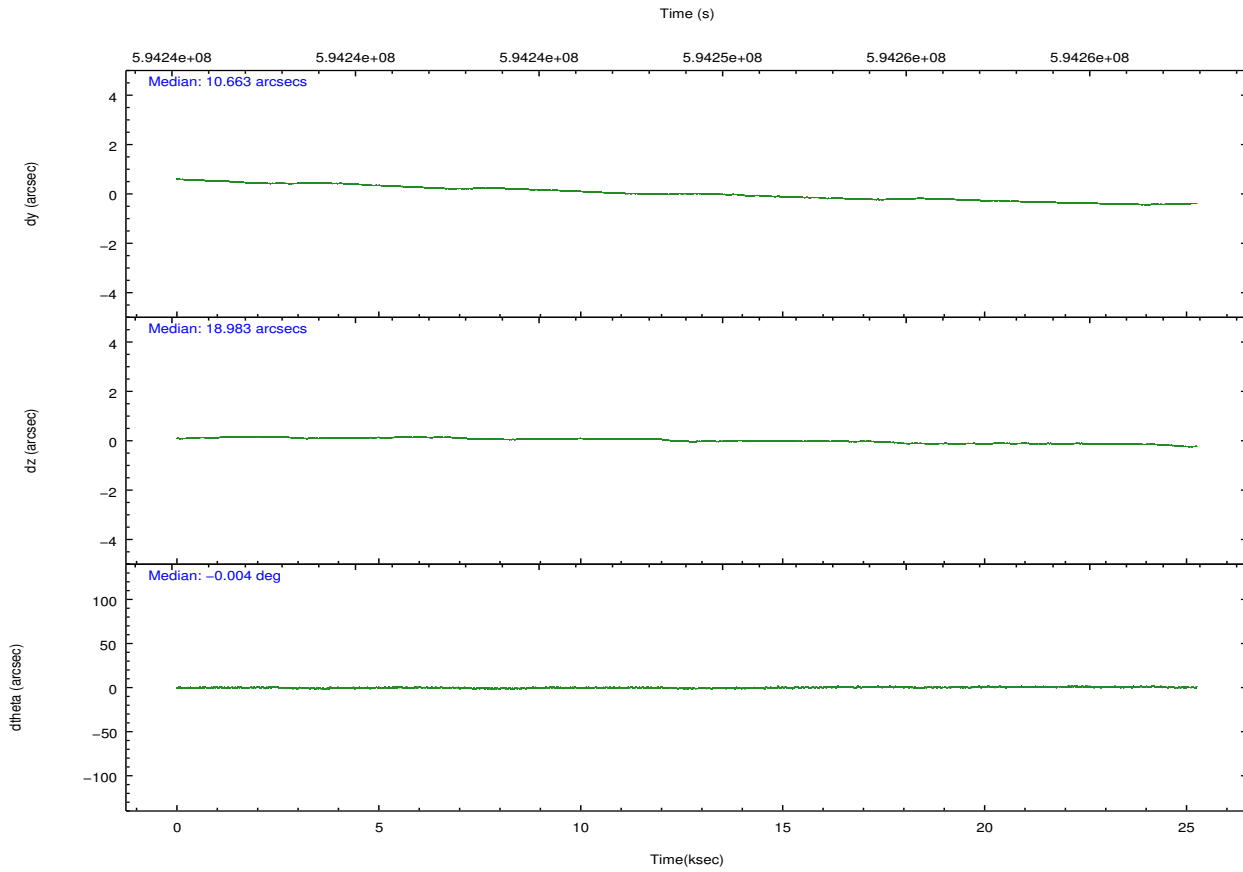
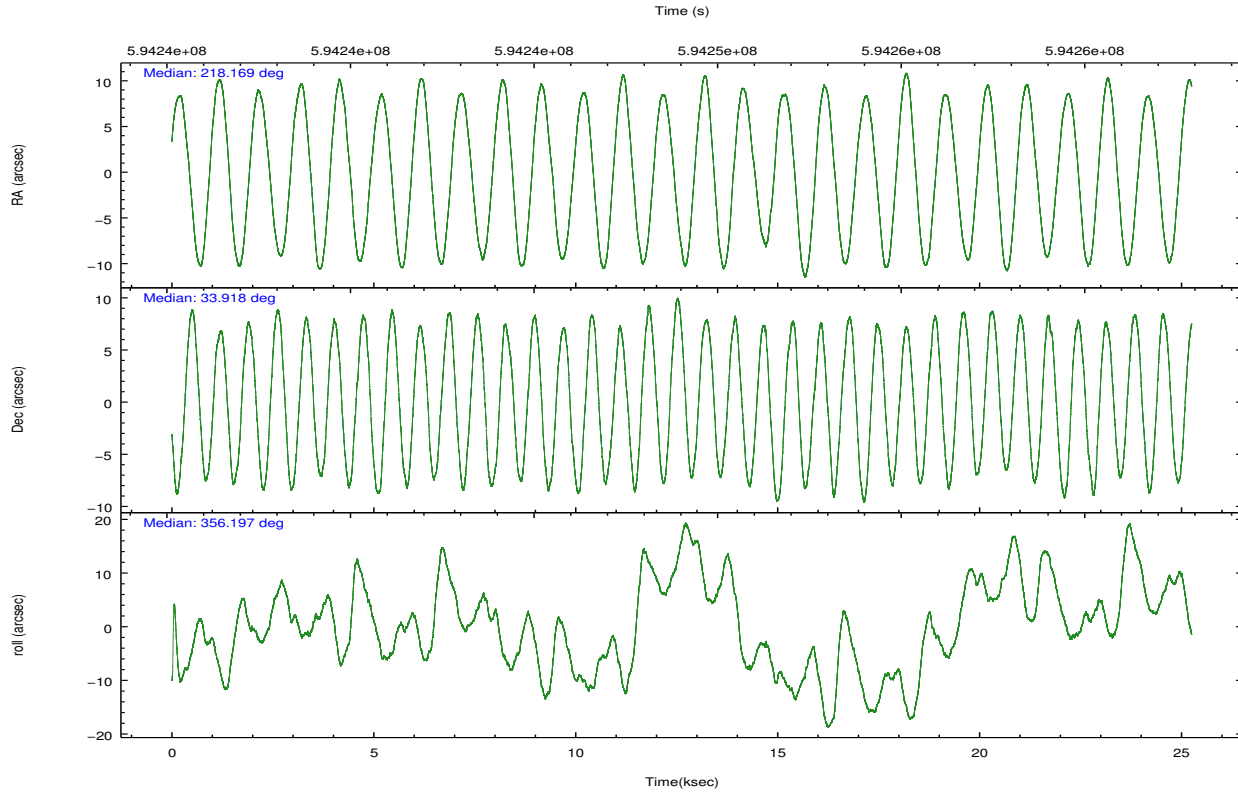
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6073	6510	6200	6830
	4%	4%	3%	4%
grade 1 events	81	68	90	88
	0%	0%	0%	0%
grade 2 events	4638	4952	4346	3807
	3%	3%	2%	2%
grade 3 events	1909	1935	1727	1807
	1%	1%	1%	1%
grade 4 events	1790	1945	1784	1785
	1%	1%	1%	1%
grade 5 events	6601	7212	6324	7654
	4%	4%	4%	4%
grade 6 events	3669	4279	3344	3565
	2%	2%	2%	2%
grade 7 events	120258	119528	133154	133130
	82%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	218.139336	218.1691377150905	CCD I2 on	Y	Y
[deg] Pointing Dec	33.905753	33.91801868732821	CCD I3 on	Y	Y
[deg] Pointing Roll	356.012182	356.2042436285535	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	594237593.184000	594236210.62764	CCD S5 on	N	N
Observation start date	2016-10-30T17:58:45	2016-10-30T17:36:50	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	594261658.184000	594261892.00412	On-chip summing requested	N	N
Observation end date	2016-10-31T00:39:50	2016-10-31T00:44:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



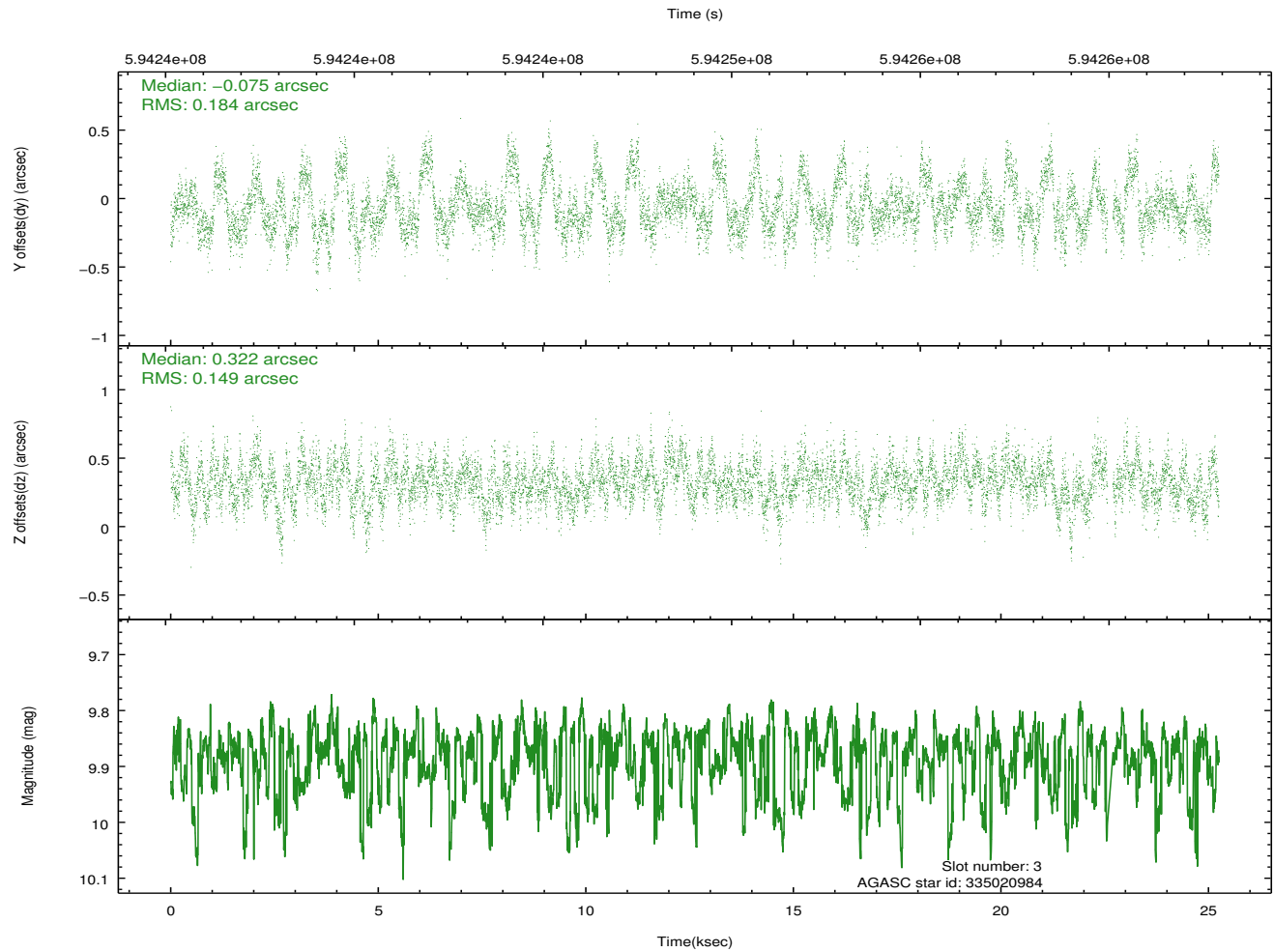
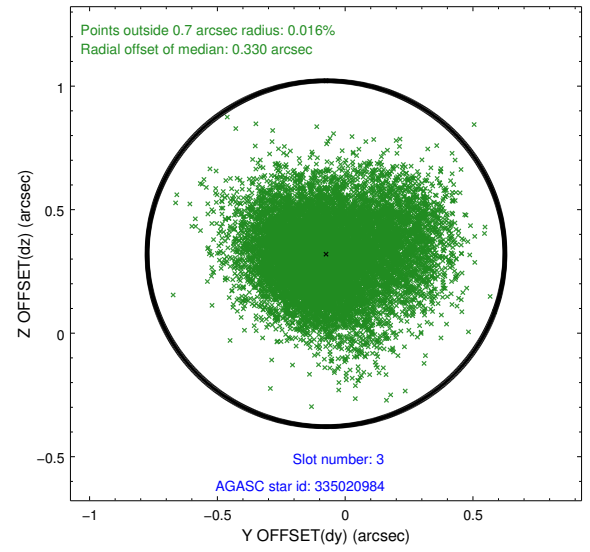
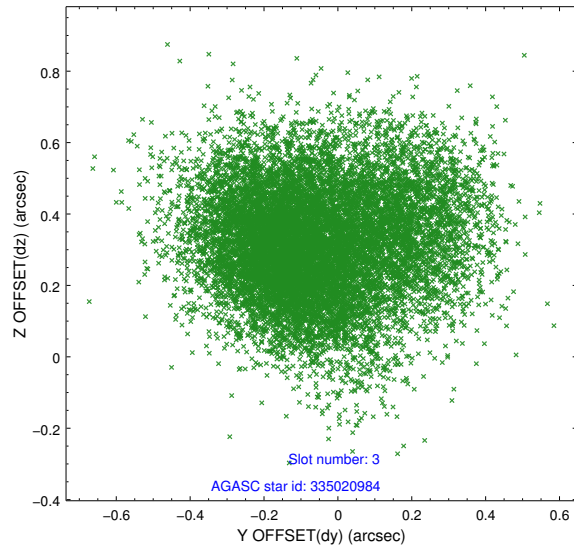


Slot Statistics

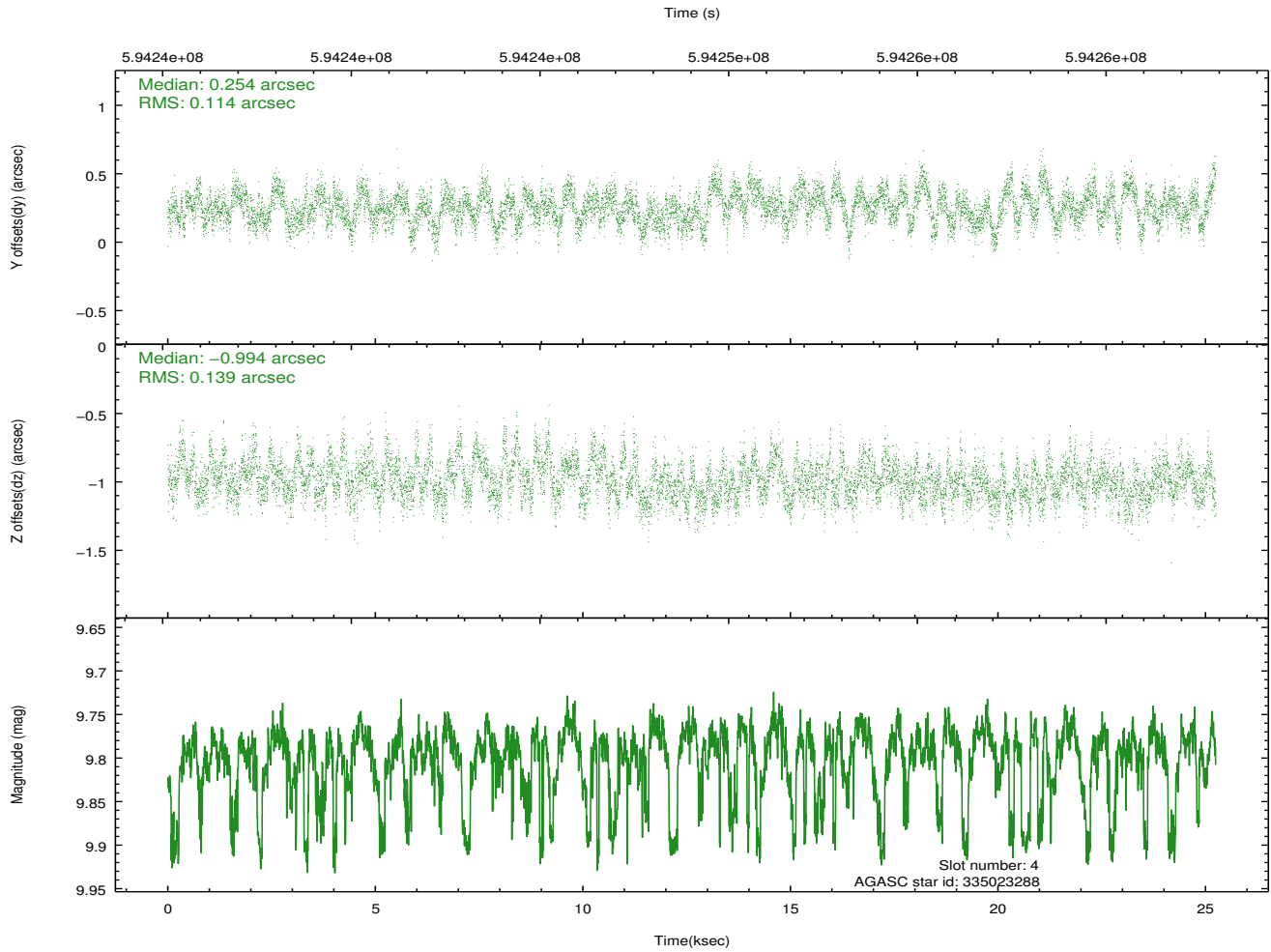
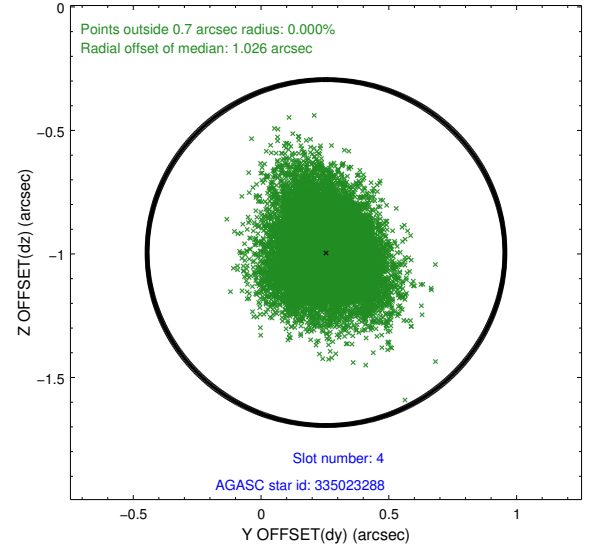
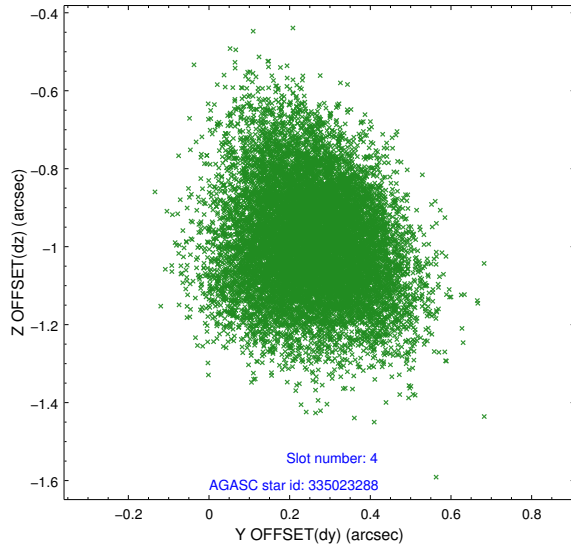
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.14	6158	0.050	0.016	0.011	0.018	0.000000	0.000000	928.98	-842.65
1	FID		ACIS-I-5	7.13	6159	-0.277	0.043	0.009	0.014	0.000000	0.000000	-1819.47	1054.70
2	FID		ACIS-I-6	7.13	6158	0.135	0.010	0.008	0.013	0.000000	0.000000	394.38	1699.39
3	GUIDE	used	335020984	9.88	12233	-0.075	0.322	0.252	0.416	218.841668	33.815112	2116.21	-169.72
4	GUIDE	used	335023288	9.80	12295	0.254	-0.994	0.190	0.311	217.791365	34.425735	-1160.80	1796.26
5	GUIDE	used	335025040	9.85	12301	-0.121	-0.176	0.183	0.303	218.601670	34.305240	1271.08	1533.60
6	GUIDE	used	335025848	9.66	12293	-0.196	0.825	0.262	0.377	217.530531	33.778292	-1785.66	-578.26
7	GUIDE	used	335029528	10.27	12175	0.103	0.029	0.364	0.626	218.786422	33.290416	2096.99	-2068.72

2.4 Star Slots

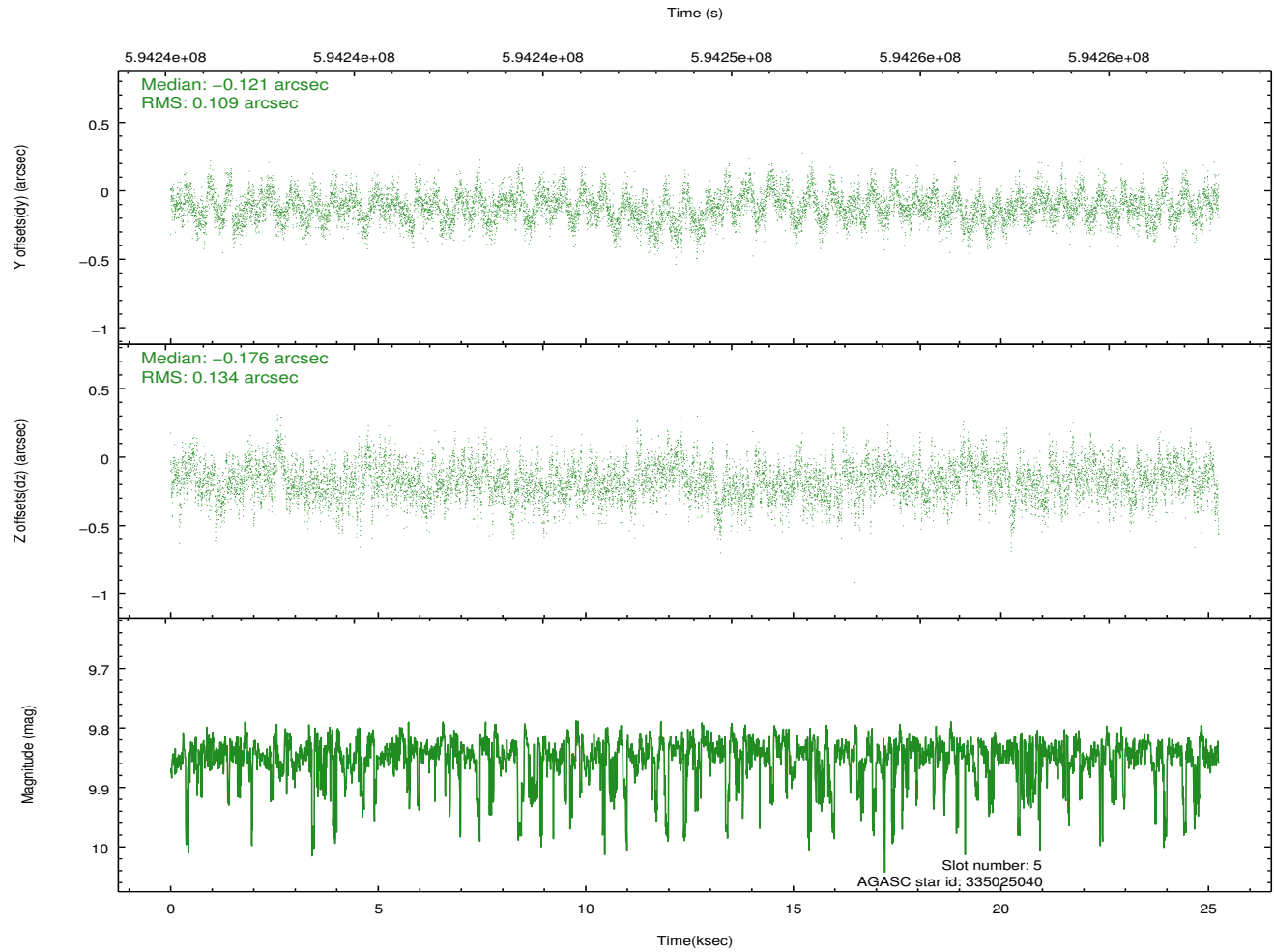
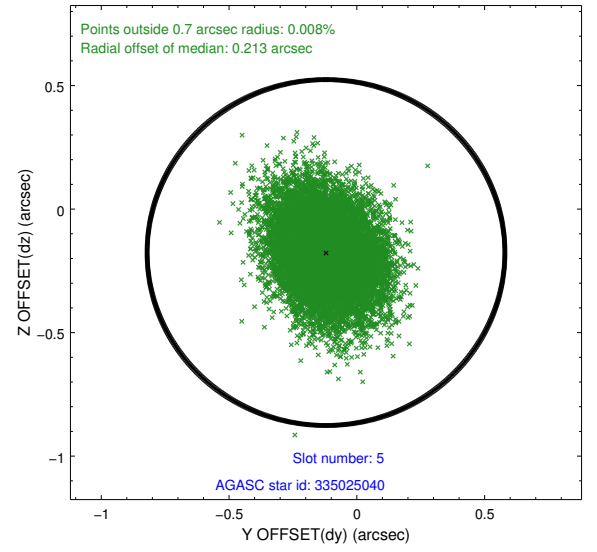
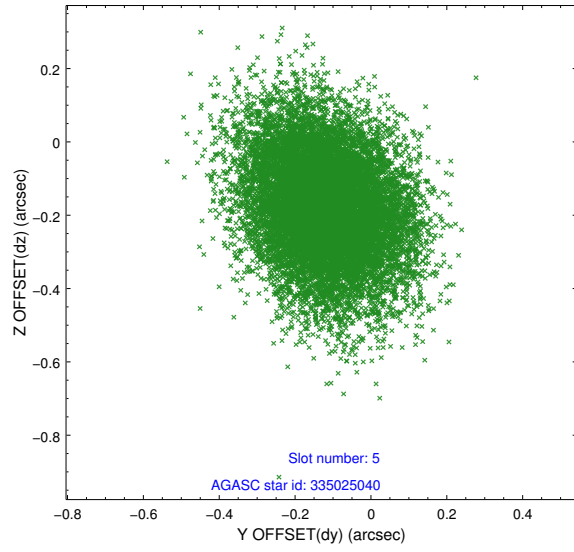
2.4.1 Slot 3



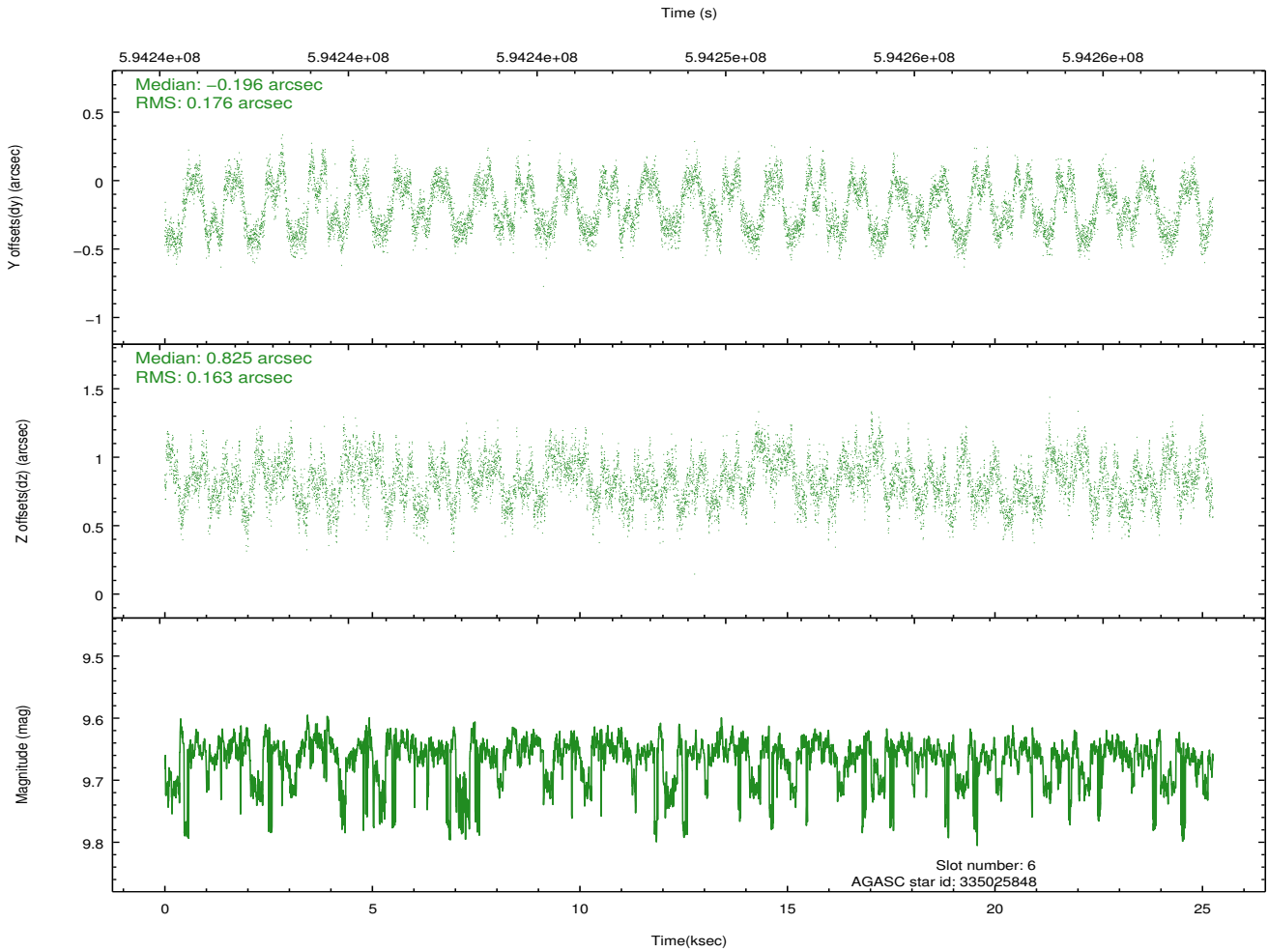
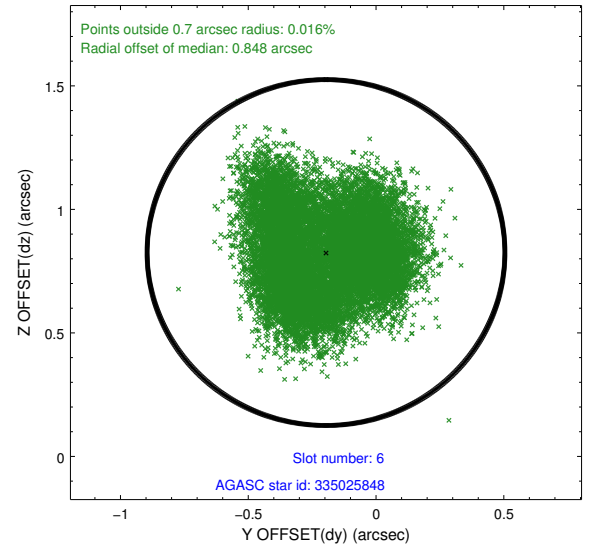
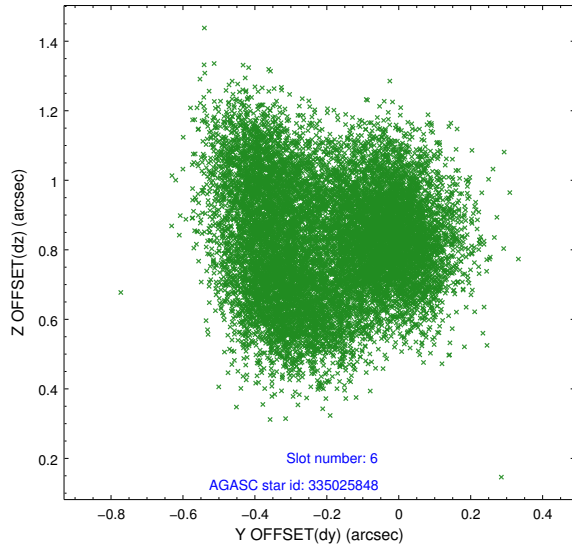
2.4.2 Slot 4



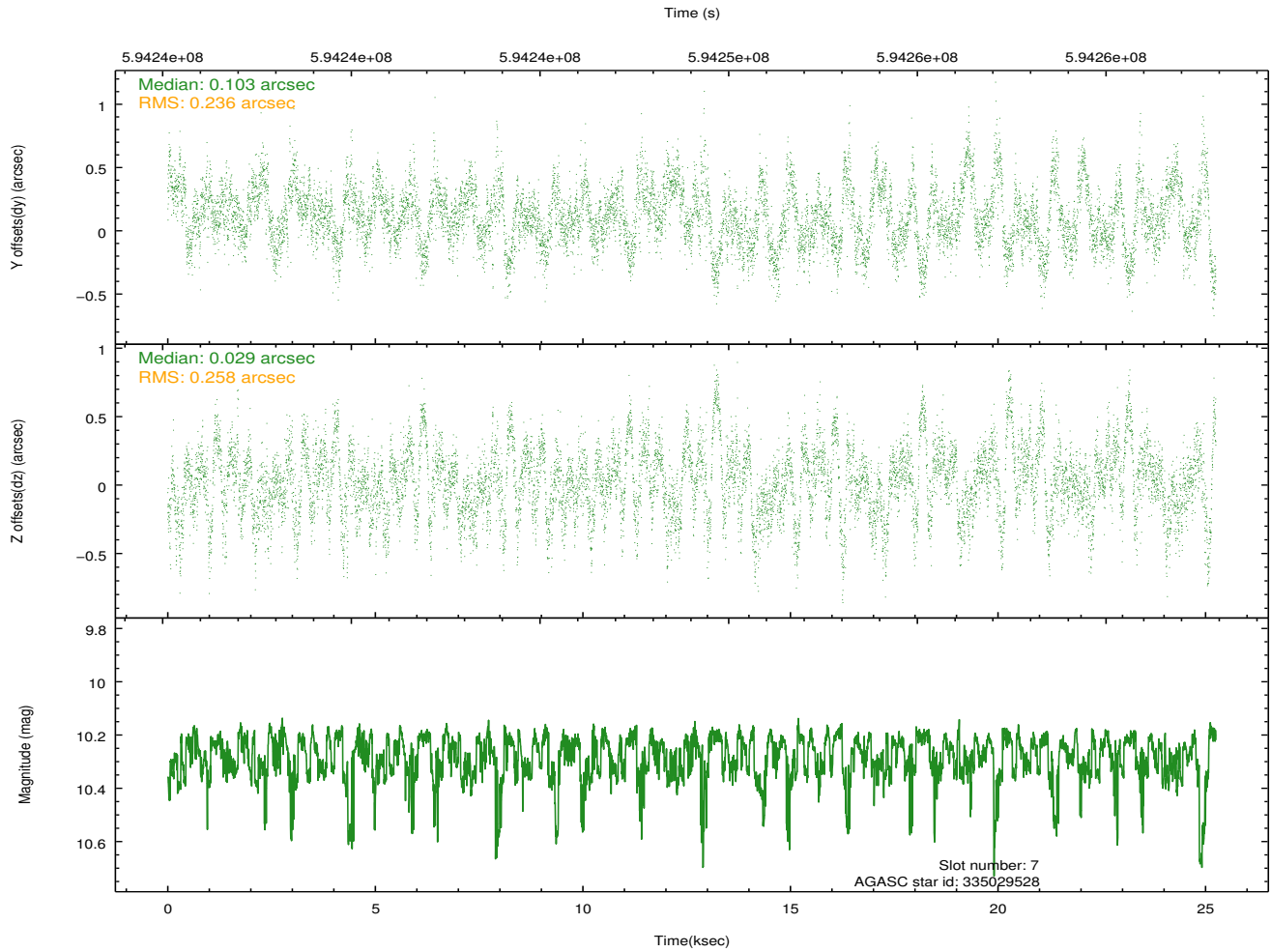
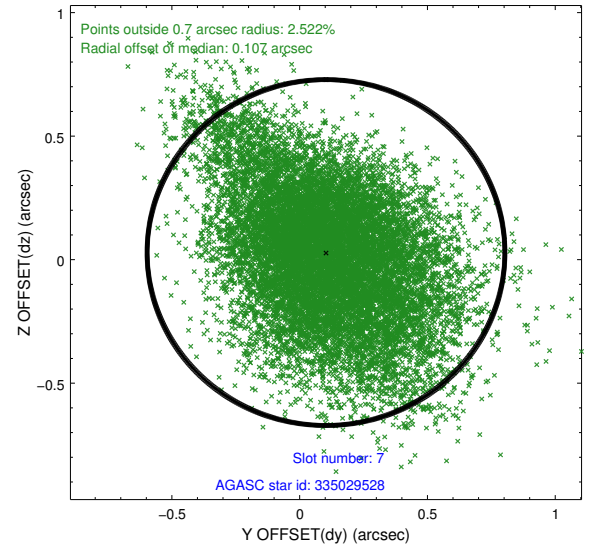
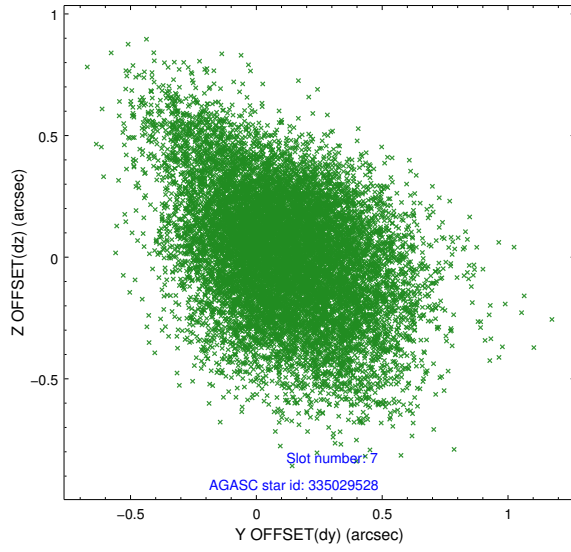
2.4.3 Slot 5



2.4.4 Slot 6

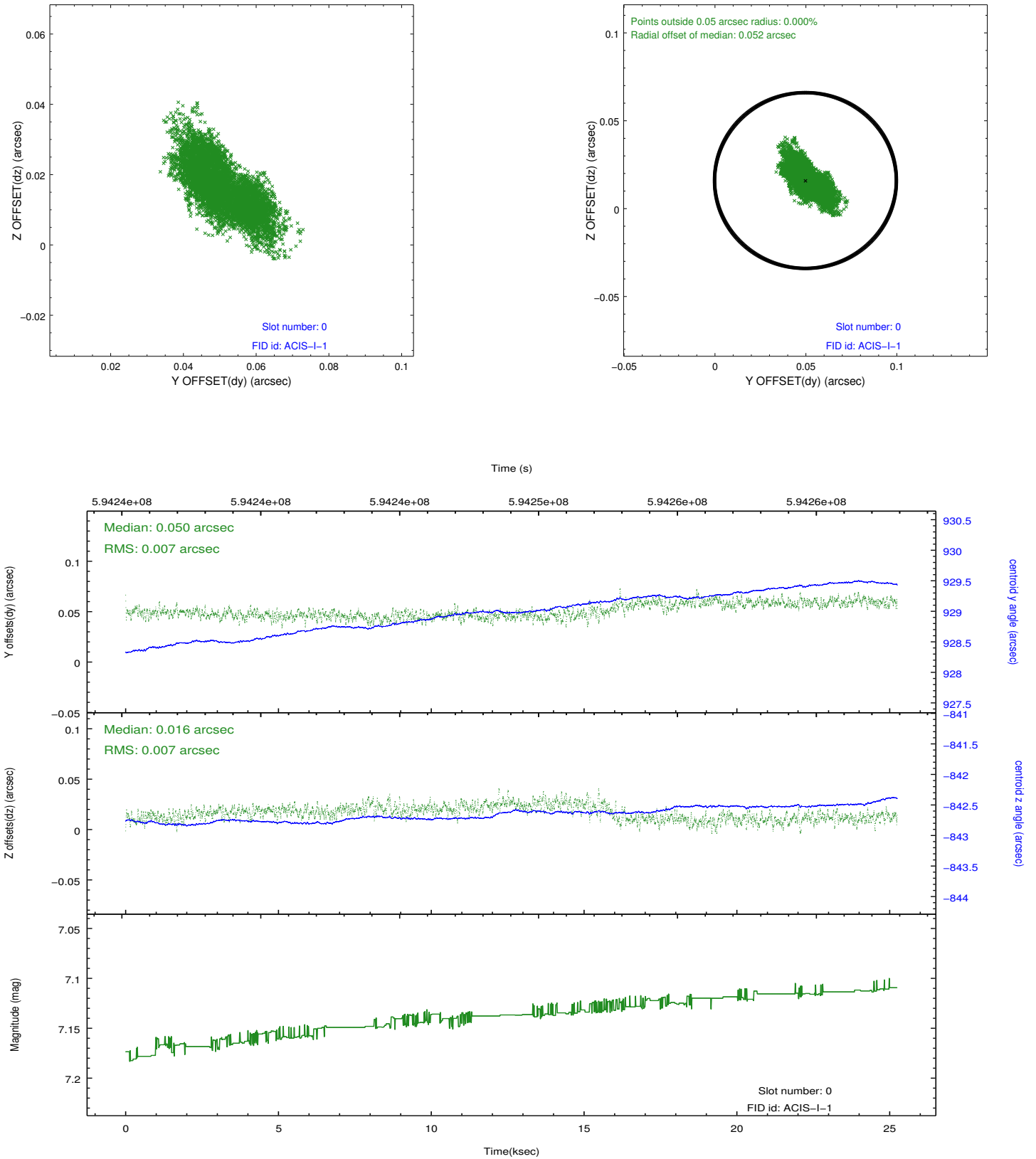


2.4.5 Slot 7

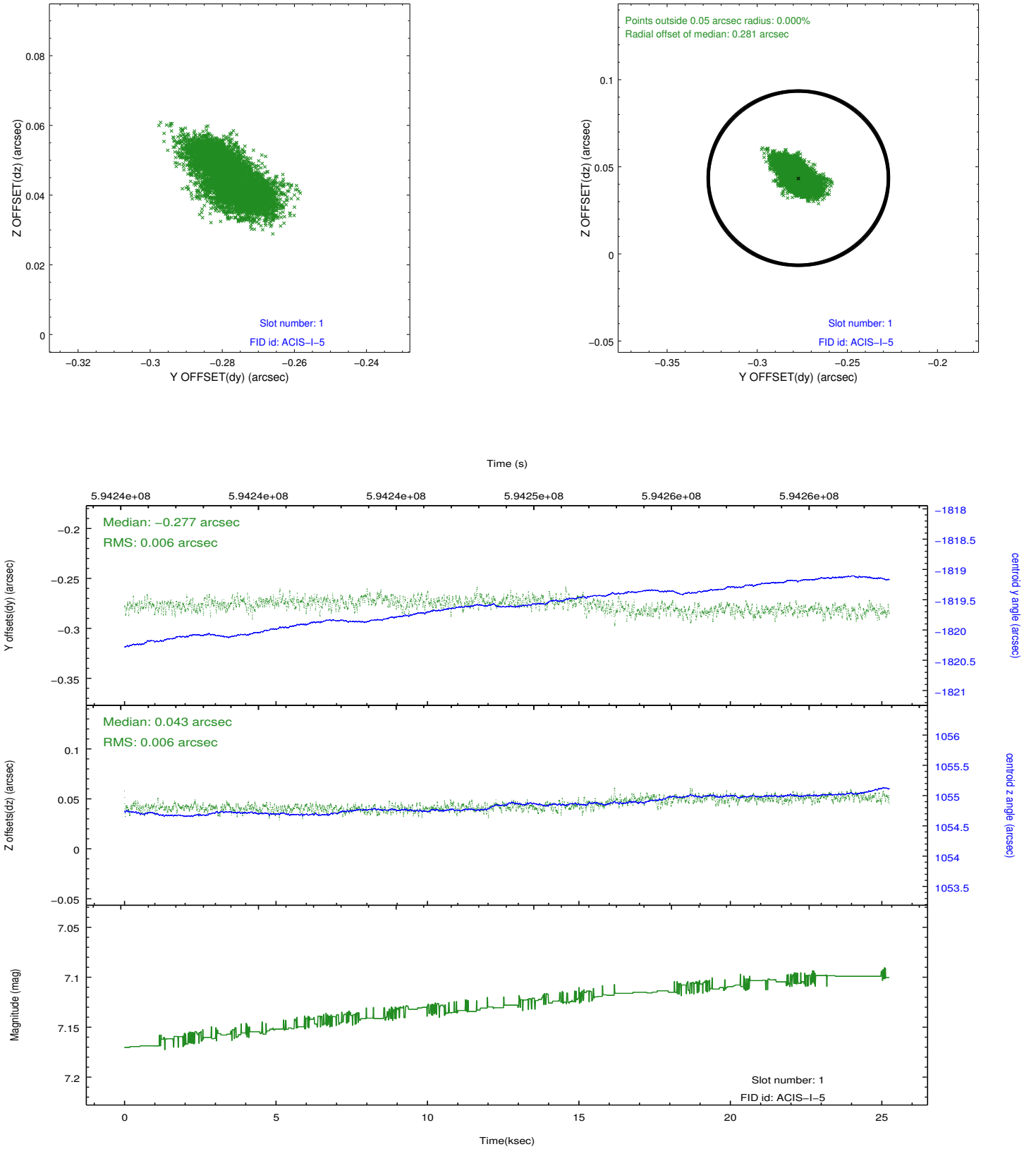


2.5 FID Slots

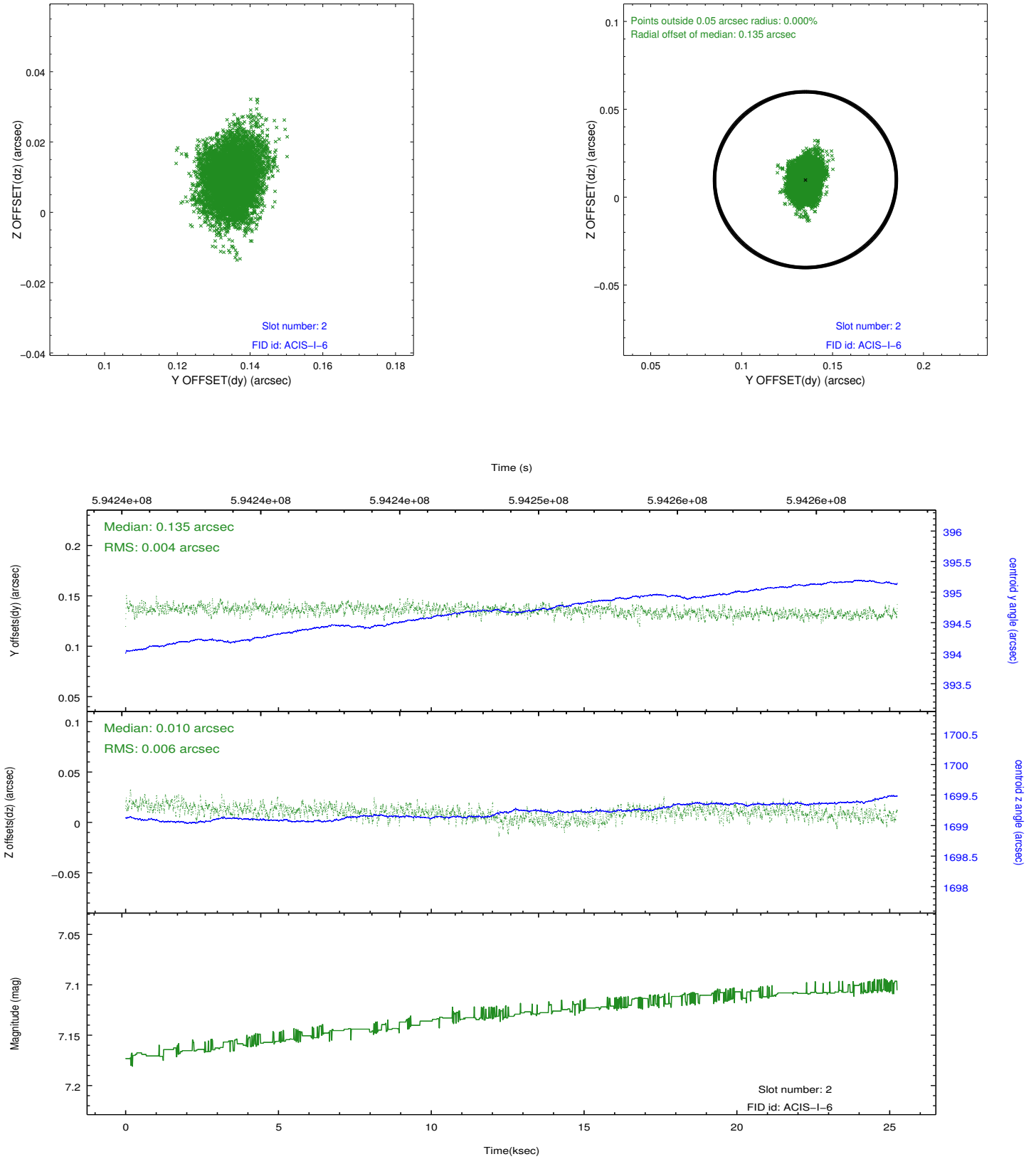
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.10.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.149000185847

A.2 Comments

Roll preference met. Optional chips S3 and S2 not included.